

# LABORATORY DATA INNOVATIONS INSTRUCTIONAL IMPLEMENTATION GUIDE

**VERSION 5.2** 

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# Introduction

To complete this training, the following documentation is required:

- Data Innovations Users Manual
- Laboratory Universal Interface Patch Documentation
- Laboratory Version 5.2, Planning and Implementation Guide

## Required Packages

Laboratory Universal Interface Patches LA\*5.2\*17 and LR\*5.2\*65

Note The ACCESSION file (#68) must be edited immediately post patch installation and before any tests can be accessioned (refer to the VISTA Configuration Part A. ACCESSION file portion of this documentation).

For additional requirements, see specifications on page 13 of the Laboratory Universal Interface Patch Documentation.

## Special Instructions for the First-Time Computer User

If you are not very familiar with Veterans Health Information Systems and Technology Architecture (VISTA) software applications, we recommend that you study the DHCP User's Guide to Computing. This orientation guide is a comprehensive handbook benefiting first time users of any VISTA application. The purpose of the introductory material is to help you become familiar with basic computer terms and the components of a computer. It is reproduced and distributed periodically by the Kernel Development Group. To request a copy, contact your local Information Resources Management (IRM) staff.

# **Special Notations**

In this manual, the user's response is bolded. The bolded part of the entry is the letter or letters that must be typed so that the computer can identify the response. In most cases, you need only enter the first few letters. This increases speed and accuracy.

Every response you type in must be followed by pressing the Return key (or Enter key for some keyboards). Whenever the Return or Enter key should be pressed, you will see the symbol **<RET>**. This symbol is not shown but is implied if there is bolded input.

Within the examples representing actual terminal dialogues, editorial comments are enclosed in brackets and will not appear on the screen.

To stop what you are doing, enter an up-arrow (^). You may use the up-arrow at almost any prompt to terminate the line of questioning and return to the previous level in the routine. Continue entering up-arrows to completely exit the system.

# On-line Help

On-line help is available at almost any prompt in the software. Entering a question mark (?) will provide information to help you answer the prompt. In some instances entering two or three question marks will provide even further information.

# **Site Preparation**

#### **Placement Considerations**

In determining where the Data Innovations Instrument Manager should be located, consideration should be given to the present and planned locations of Laboratory and Non-Laboratory Analyzers.

- If all analyzers are located in one area, the Instrument Manager may be located within the same area.
- If analyzers are, or will be located in separate distinct areas or facilities, the Instrument Manager should be located in an area that would facilitate connection with minimum routing of communication lines.
- If network capabilities are available throughout the facilities, that is, Local Area Network (LAN) using LAT or TCP/IP Protocols, then the Instrument Manager can be located at any location with network access.

# **Port Configuration**

For port configuration information see Appendix A pages 95 through 98 of Laboratory Universal Interface Patch Documentation.

#### Test

If using RS-232 Serial connection, test the line by connecting a CRT and successfully send and receive data at the terminal.

## Wiring

- Modem wiring for Data Innovations Instrument Managers Dial-In Modem
   Provide direct inward dial line (DID).
- Wiring for Data Innovations Instrument Manager to analyzer(s)

Use Port Configuration if necessary.

- See Appendix A pages 95 through 98 of Laboratory Universal Interface Patch Documentation.
- If the analyzer is connected through a terminal server, supply IRMS with analyzer specific host communication settings: baud rate, data bits, stop bits, parity and protocol for each analyzer.

#### Test

If using RS-232 Serial connection, test line by connecting a CRT and successfully send/receive data at the terminal.

# **Instrument Manager-Validation**

# Instrument Manager Hardware

- 1. Install PC, monitor, keyboard, and modem per installation instructions.
- 2. Power Up Instrument Manager.
- 3. Install Instrument Manager software if not purchased pre-installed per vendor instructions.
- 4. Notify Data Innovations of individual analyzer software drivers required and provide the following information.
  - Analyzer Name
  - Analyzer software version
  - Communication protocol
  - Unidirectional
  - Bidirectional
  - Cluster

# VISTA Configuration

## ACCESSION file (#68)

Using FileMan edit the ACCESSION file according to instructions in the Lab Universal Interface Patch Documentation (page 28).

#### **Notes**

Field #.091, Numeric Identifier, has been changed to Field #.4.

The Numeric Identifier field is a 1-2 alpha-numeric character(s) using the combination of numbers 1-9 and/or uppercase letters A-Z. If using the UID and an analyzer requires a numeric UID, then use number(s) 1-99.

## **HL7 Package**

When Version 1.6 of the HL7 package is installed, use HL7 V 1.5 options in configuring package parameters related to the Universal Interface.

You must configure the following files:

#### DEVICE file (# 3.5)

1. Define entry-NULL DEVICE

The VISTA HL7 package requires the entry of a NULL DEVICE.

The NULL DEVICE must be defined if not already defined.

For DSM Sites, Suggested Setup:

Field	Entry
NAME:	NULL DEVICE
\$I:	_NLA0:
VOLUME SET(CPU):	ROU
SIGN-ON/SYSTEM	NO
DEVICE:	
LOCATION OF	COMPUTER ROOM
TERMINAL:	
SUBTYPE:	P-OTHER [or any generic terminal type]
TYPE:	TERMINAL

For MSM sites running additional HL7 interfaces, more than one Null device must be defined. Refer to pages 19 through 22 of the Laboratory Universal Interface Patch Documentation for specifics.

2. Define the device used by the **V***IST***A** HL7 package to communicate with the Instrument Manager.

Suggested Setup:

Field	Entry
NAME:	LABDATA-IM
\$I:	[Set to appropriate value per operating
	system]
ASK DEVICE:	NO
ASK PARAMETERS:	NO
SIGN ON/SYSTEM	NO
DEVICE:	
LOCATION OF	[Location of IM]
TERMINAL:	
SUPPRESS FORM FEED	YES
AT CLOSE:	
SUBTYPE:	P-OTHER [or any generic terminal type,
	e.g., No codes in Open/Close Execute
	fields or other fields allowing control
	codes.]
TYPE:	TERMINAL

Suggested Setup for Alpha VMS/DSM Systems:

Field	Entry
LAT SERVER NODE:	[Terminal Server Name]
LAT SERVER PORT:	[Terminal Server Port Address]
VMS DEVICE TYPE:	LAB INSTRUMENT
LAT PORT SPEED:	[Baud rate of this port]

## **HL7 APPLICATION PARAMETER file (#771)**

LA\*5.2\*17 patch post init should create the entry LA AUTO INST as follows:

Field	Entry
NAME:	LA AUTO INST
ACTIVE/INACTIVE:	ACTIVE
HL7 ENCODING	~^\&
CHARACTERS:	
HL7 FIELD SEPARATOR:	
HL7 MESSAGE:	ORU
PROCESSING ROUTINE:	ORU^LA7HL7
HL7 MESSAGE:	ORM
PROCESSING ROUTINE:	NONE
HL7 SEGMENT:	OBR
FIELDS USED IN THIS	4,7,8,9,14,22
SEGEMENT:	
HL7 SEGMENT:	OBX
FIELDS USED IN THIS	2,3,4,5,6,7,8
SEGEMENT:	
HL7 SEGMENT:	MSH
	[FIELDS USED IN THIS SEGEMENT:
	1,2,3,4,5,6,7,8,9,10,11,12]
HL7 SEGMENT:	PID
FIELDS USED IN THIS	3,5,7,8,19
SEGEMENT:	
HL7 SEGMENT:	ORC
FIELDS USED IN THIS	1,2,3
SEGEMENT:	
HL7 SEGMENT:	NTE
FIELDS USED IN THIS	3
SEGEMENT:	

Note An entry must also be created or exist in File # 771 for LAB INTERFACE:

Field	Entry
NAME:	LAB INTERFACE
ACTIVE/INACTIVE:	ACTIVE
FACILITY NAME:	Instrument Manager

# HL7 NON DHCP APPLICATION PARAMETER file (#770)

Set up Lab Interface using the HL7 Main Menu

- Version 1.5 Option
- Non- VISTA Application Parameter Enter/Edit

Suggested field entries:

Field	Entry
NAME:	LAB INTERFACE
VISTA STATION	[Site's VA station number]
NUMBER:	
NON- <b>V</b> IST <b>A</b> FACILITY	Instrument Manager
NAME:	
MAXIMUM BLOCK SIZE:	245
NUMBER OF RETRIES:	3
HL7 DEVICE:	[Name of device specified in DEVICE file
	(#3.5) to which the Instrument Manager is
	connected for VISTA connection.]
HL7 VERSION NUMBER:	[Version of HL7 Specification used by Data
	Innovations. At this writing it is
	V. 2.2]
VISTA APPLICATION:	LA AUTO INST
LOWER LEVEL	5
PROTOCOL TIMEOUT:	
RELATED FILE 771	LAB INTERFACE
ENTRY:	
HL7 PROCESING ID:	PRODUCTION
START/STOP	STOP LOG
TRANSMISSION LOG:	

# LA7 MESSAGE PARAMETER CONFIGURATION (#62.48)

The following entries are required for this file:

Field	Entry
CONFIGURATION:	UNIVERSAL INTERFACE
PROTOCOL:	HEALTH LEVEL SEVEN
STATUS:	ACTIVE
DEBUG LOG:	ON [Turning this on logs errors]
HL7 NON- <b>V</b> IST <b>A</b>	LAB INTERFACE
APPLICATION:	
PROCESS IN:	D QUE^LA7UIIN
PROCESS DOWNLOAD:	D EN^LA7UID1
REMOTE SYSTEM ID:	[This is a free text field and should contain
	the following entries in order.
	.01 field of file #770, #3 field of file #770,
	field #8 of file # 770 and field #2 of file #
	770.
	Do not insert spaces between field entries.
	This entry is case sensitive.
	Example
	LAB INTERFACEInstrument ManagerLA AUTO
	INST695]
	,

#### TOPOGRAPHY file (#61)

Map those entries that are used by your site to define test specimens to the appropriate HL7 specimen type.

Refer to page 29 of the Lab Universal Interface Patch Documentation.

#### URGENCY file (#62.05)

Map VISTA Lab urgency to the HL7 urgency. These entries are used when downloading to analyzer and analyzer accepts multiple urgencies. It is unnecessary to map workload urgencies.

#### **AUTO INSTRUMENT file (#62.4)**

Create an entry for each instrument connected through the Instrument Manager.

Entries in the Auto Instrument file must be created as specified in the Laboratory Planning and Implementation Guide. The following are unique requirements for entries using the universal interface.

Field	Description/Entry
NUMBER	Select an entry that is <100 and does not
	conflict with any Laboratory System
	Interface (LSI) entries
NAME:	This name should be 1-8 alpha numeric
	characters, unique and match exactly the
	corresponding entry in the Instrument
	Manager.
PROGRAM:	This field is not used by the universal
	interface.
LOAD/WORK LIST	Name of load/work list associated with this
	instrument
ENTRY for LAGEN	IDE
ROUTINE	
CROSS LINKED BY	Accession cross-reference
MESSAGE	UNIVERSAL INTERFACE
CONFIGURATION:	

Field	Description/Entry
CHEM TEST (Multiples)	
PARAM 1:	This is an old field with a new use. Any M
	code written into this field will be executed
	on a given test result that is contained in
	the variable LA7VAL. **Any prior code in
	this field will need to be removed. If
	additional coding is required, refer to page
	47 of the Laboratory Universal Interface
DADAM O C O.	Patch Documentation
PARAM 2 & 3:	These fields are not used by the universal interface.
UI TEST CODE:	Refer to analyzer vendor documentation for
OTTEST CODE.	specific codes required.
NUMBER OF	Site preference
DECIMAL PLACES:	Site preference
CONVERT RESULT TO	Site preference
REMARK:	•
ACCEPT RESULTS	Site preference
FOR THIS TEST:	
DOWNLOAD TO	Site preference
INSTRUMENT:	
IGNORE RESULTS	Site preference
NOT ORDERED:	
REMOVE SPACES	Site preference
FROM RESULT:	m (1)
DOWNLOAD ENTRY &	These fields are not used by the universal
DOWNLOAD	interface.
PROTOCOL:	
FILE BUILD ENTRY:	EN
FILE BUILD ROUTINE:	LA7UID
AUTO DOWNLOAD:	Set to YES if analyzer is run in
	Bidirectional mode in order to send orders
	automatically to the analyzer
•	

#### **Other Files**

Additional entries must be created in Files #'s 3.5, 770, 771, 62.48, and 62.4, for each Instrument Manager in use. (Suggested naming: LAB INTERFACE2, LAB INTERFACE3, etc., UNIVERSAL INTERFACE2, UNIVERSAL INTERFACE3, as applicable.)

# **Instrument Manager Configuration**

## **Instrument Manager System Configuration**

When setting up the system configuration, the following four parameters must match the corresponding entries in the **V***ISTA* HL7 package:

Parameter	Entry
Sending Application:	[.01 Name field in the NON-DHCP
	APPLICATION PARAMETER file (# 770).]
Sending Site:	[The NON-DHCP FACILITY NAME field in
	the NON-DHCP APPLICATION
	PARAMETER file (#770).]
Receiving Application:	[LA AUTO INST as specified in the HL7
	APPLICATION PARAMETER file (#771).]
Receiving Site:	[Your VAMC Site number.]
Port location:	[Device used by Instrument Manager to
	communicate to VISTA.]

# Configuration for each Analyzer

Analyzer configuration must be specified on the Instrument Manager using the System Configuration-Configuration Editor-Add/Edit Configuration. (See the Data Innovations Instrument Manager User Manual for further explanation.)

Field	Description
Configuration Name:	Brief name for the configuration (1-6 alphanumeric characters).
Configuration Description:	Detailed description of the configuration. (1-25 alpha-numeric characters).
Driver type:	Choose the appropriate driver for the instrument you are interfacing. All available drivers will be listed for selection.

Test Mapping performed (if necessary). If you use the test code transmitted by the instrument as the UI test code in the DHCP Auto Instrument file (#62.4), no test code mapping will be required.

Test code mapping is unique to each instrument. If further information is required, refer to the Data Innovations Instrument Manager User Manual.

Configurations may be copied and assigned to multiple identical instruments. (See the Data Innovations Instrument Manager User Manual for further information.)

Port connection for each analyzer is defined on the Instrument Manager using the System Configuration Menu option/Connection Assignment. (See the Data Innovations Instrument Manager User Manual for further explanation.)

Field	Description
Connection Name:	A unique one to eight character name must be entered which has a corresponding identical entry in the DHCP AUTO INSTRUMENT file (#62.4).
Configuration Name:	Choose entry created using configuration editor
Device:	This field is similar to the VISTA Device file, in that a device name is associated with a physical device and the system address to access that device. Refer to Data Innovations Instrument Manager User Manual for specifications.
Days of data to keep:	This field is selected by the site. This field determines the number of days in which the orders and results are kept on the Instrument Manager for the specified analyzer. Orders will be purged after the specified number of days and will be unavailable for host query purposes. Increase this parameter when testing is not performed within the number of days specified.
Destination Line(s):	This field is generally left blank. It is only used when running multiple applications (lab and non-lab).
Auto Start on System Start:	This field determines if the instrument interface should be started automatically when the Instrument Manager system is started.

#### **Cluster Definition**

Groups of similar instruments may be "clustered" together. Clustering allows a specimen to be run and reported on any of the analyzers included in the cluster without specifying a particular analyzer. The individual analyzers must have unique entries, and an additional "cluster" entry that contains all tests to be analyzed in the **V**ISTA Auto Instrument file (#62.4). Orders are downloaded using the "cluster" entry and results are returned to the individual analyzer entry that performed the test All individual analyzers must be defined in the Instrument Manager as specified above. The Cluster is then created using the System Configuration/Connection Assignment/Cluster Definition option on the Data Innovations Instrument Manager. See the Data Innovations Instrument Manager User Manual for further explanation.

When changes are made to any configuration, save the changes to an appropriately labeled floppy disk as per instructions in the Data Innovations Instrument Manager User Manual.

# **Analyzer Configuration**

Each analyzer must be defined in the AUTO INSTRUMENT file (#62.4)

Refer to technical notes in the Lab Universal Interface Patch Documentation pages 47 through 51 for more detailed information.

## **Analyzer Host Communications to Instrument Manager**

Refer to specific analyzer documentation for the required host communication setups.

#### **Barcode Labels**

If barcode labels are utilized for instrument interfacing, the following steps are necessary:

- 1. Printer should be installed and functioning.
- 2. Barcode capable label routine should be installed and printing barcodes.
- 3. Barcodes should be set to YES using field #5 Barcode Print of the ACCESSION file (#68) for each accession area that has an analyzer utilizing barcodes.
- 4. Barcode type should be identified as SHORT (accession number) or LONG (UID) in the Type Of Accession Number field (#092) of the ACCESSION file (#68).

Each analyzer utilizing barcodes should have barcode capabilities enabled. Barcodes should be functional before interfacing is attempted.

# **Confirming Data Transmission**

## Test Data Stream (Upload Results)

- 1. Turn on the Instrument Manager system
- 2. Start the individual interface to the analyzer to be tested as per the Data Innovations Instrument Manager User Manual instructions.

**Note** Upload testing should always be successfully performed prior to download testing.

#### **Analyzer to Instrument Manager**

- 1. Transmit results from analyzer to Instrument Manager.
  - **Note** This may be accomplished by either running a specimen on the analyzer or retransmitting a prior unverified result.
- 2. Watch Instrument Manager System Status screen for incrementing IN Status for the analyzer.

#### Interface Manager to VISTA

- 1. Turn on Transmission Log via HL7 Menu Option
  - Note The log will be stored in global TMP("HL",hl7 device name for Instrument Manager,date/time,"SEND" or "REC." The SEND node is what VISTA is sending to the Instrument Manager. The REC node is what VISTA is receiving from the Instrument Manager.
  - **Caution** Remember to **turn off transmission log** after communication is successfully established. If transmission log is left on then site incurs danger of disk containing TMP global becoming full. Use above option to purge log, user must be on same system which contains TMP global used to log transmissions.

- 2. Make sure Background Job is running.
  - Note Check for routine HLLP in the system status. If not running, start job using the V1.5 HL7 option INITIATE BACKGROUND TASK and selecting LAB INTERFACE. If task appears to start then stop, check for availability of VISTA DEVICE "NULL DEVICE", required in addition to device connected to Instrument Manager, also check ability of VISTA to open device that the Instrument Manager is connected to.
- 3. Message should be sent once background job has been initiated.

#### **Troubleshooting**

Successful receipt of message by VISTA HL7 package can be confirmed by viewing the TMP("HL",...global. If a message is rejected by the HL7 package due to transmission problems, the VISTA HL7 package will send an N21 message that indicates a checksum problem with the message.

This usually indicates a possible line noise problem. Recheck line connections.

If the message is successfully received by the VISTA HL7 package it will then pass the message off to the Laboratory package. The Laboratory package will process the message and create an MSA message segment. This will show in the transmission log in the SEND node. The MSA segment will have the following:

- AA Application Accept
- AR Application Reject

If AA, then the laboratory package will process the message. Any problems detected in processing the message will be logged in the "debug log" if the site has set "DEBUG LOG" on in File #62.48, LA7 MESSAGE CONFIGURATION. This log is viewed using the LA7 PRINT LAB UI ERROR LOG option.

If AR, then the laboratory package could not find the entry in File #62.48 that will process this message. Review the field "REMOTE ID" for entry "UNIVERSAL INTERFACE" and for correct spelling. Corresponding entries in Files #770, #771 and on Instrument Manager for sending application/facility and receiving application/facility need to be uniform.

If you see that the message is not transmitting, review file setups and check for presence of routines on all the systems. If routines are mapped, check to see if appropriate changes have been made for mapping. Review entries in the Instrument Manager.

## Test Data Stream (Download Orders)

- 1. Accession test specimen or utilize specimen that has been accessioned but not yet assigned to a load/work list.
- 2. For testing of bidirectional load/work list download, build a load/work list for the analyzer to be tested.

All processes for testing upload should remain active.

#### Data-VISTA to Instrument Manager

- 1. For auto download, a message should be created upon accessioning.
- 2. Download load/work list for testing of bidirectional load/work list download.

#### **Instrument Manager to Analyzer**

Messages should be sent from the Instrument Manager to the analyzer including tests to be run on the specimen and may include specimen ID and location on the analyzer if applicable. If unsuccessful, the analyzers host computer will flag an error and reject the request.

#### **Troubleshooting**

Watch TMP("HL"...global for messages. If messages are not created, utilize the LA7 PRINT LAB UI ERROR LOG option to review errors as listed above. Review the lab files for correct and complete entries Watch for spelling. If mapping was performed on the Instrument Manager, review for correct and complete entries and spelling. If the message is not transmitting, review file setups and checks for presence of routines on all the systems. If routines are mapped, check to see if appropriate changes have been made for mapping.

If checking data from the Instrument Manager to the Analyzer, check Host Configuration Parameters on your analyzer.

For more information regarding HL7 messages, refer to the Laboratory Universal Interface Patch Documentation pages 65 through 83.

# **Training**

Most of the changes present will be transparent to the lab user. Individuals that are responsible for set up, training and workflow should be informed of any new capabilities. Be aware that the operation of the analyzers may change, especially when moving from a unidirectional to a bidirectional mode.

If the Instrument Manager is located in the laboratory, users may be trained in the following operations of the Instrument Manager:

- Starting/Stopping of individual interfaces.
- Monitoring System Status screen on the Instrument Manager for changes in the IN and SEND queues that would indicate transmission and receipt of messages.

IRMS should be aware that the interface should be re-started after any system downtime. IRM can task multiple background jobs. Only one job will run at a time. If the background job should stop or the system rebooted, then TaskMan will automatically start one of the waiting tasks.

The Laboratory Information Manager (LIM) should be assigned the LA7 MAIN MENU (Lab Universal Interface menu).

It is recommended that the error log be reviewed once a day (on screen or printed) using the option LA7 PRINT LAB UI ERROR LOG.

# **Appendix A: Sample Instrument**

#### Clinitek 100

#### Load/Work List:

```
NAME: CLINITEK-100
                                      LOAD TRANSFORM: UNIVERSAL
 TYPE: TRAY, CUP
                                      CUPS PER TRAY: 10
 FULL TRAY'S ONLY: NO
                                     EXPAND PANELS ON PRINT: NO
 VERIFY BY: ACCESSION
                                    SUPPRESS SEQUENCE #: NO
 INCLUDE UNCOLLECTED ACCESSIONS: NO ADDITIONAL LAB TESTS: Instrument Set
Up - Urinalysis
PROFILE: URINALYSIS
                                      ACCESSION AREA: URINALYSIS
TEST: URINALYSIS
                                      BUILD NAME ONLY: NO
TEST: T.REACTION, URINE
                                      BUILD NAME ONLY: NO
TEST: URINE MICROSCOPIC
                                      BUILD NAME ONLY: NO
TRAY #: 1
CUP or SEQUENCE #: 1
                                     CONTROL: CLINITEK QC LEVEL 1
CUP or SEQUENCE #: 2
                                      CONTROL: CLINITEK QC LEVEL 2
 WKLD METHOD: CLINITEK 100
                                    WKLD CODE METHOD NAME: CLINITEK 100
 WKLD CODE SUFFIX: .4339
                                     MAJOR ACCESSION AREA: URINALYSIS
```

#### **Auto Instrument Setup:**

```
NUMBER: 18
                                       NAME: CL100-IM
 LOAD/WORK LIST: CLINITEK-100
 ENTRY for LAGEN ROUTINE: Accession cross-reference
 CROSS LINKED BY: ID
 MESSAGE CONFIGURATION: UNIVERSAL INTERFACE
 METHOD: CLT100
                                       DEFAULT ACCESSION AREA: URINALYSIS
 OVERLAY DATA: YES
NUMBER: 1
                                       TEST: URINE COLOR
 UI TEST CODE: URINE COLOR
                                       ROUTINE STORAGE:
TV (683, 1)
 CONVERT RESULT TO REMARK: NO
NUMBER: 2
                                       TEST: URINE CLARITY
 UI TEST CODE: URINE CLARITY
                                     ROUTINE STORAGE:
TV(162,1)
 CONVERT RESULT TO REMARK: NO
NUMBER: 3
                                       TEST: SPECIFIC GRAVITY (URINES)
 UI TEST CODE: SPECIFIC GRAVITY (URINES)
 ROUTINE STORAGE: TV(685,1) NUMBER OF DECIMAL PLACES: 3
NUMBER: 4
                                    TEST: URINE PH
 UI TEST CODE: URINE PH
                                       ROUTINE STORAGE: TV(692,1)
 NUMBER OF DECIMAL PLACES: 1
NUMBER: 7
                                       TEST: URINE KETONES
 PARAM 1: S
LA7VAL=$S(LA7VAL="Negative": "Negative", 1:$P("TRACE; SMALL; MOD; LARGE", "; ", LA7VA
                      UI TEST CODE: URINE KETONES
 ROUTINE STORAGE: TV(689,1) CONVERT RESULT TO REMARK: NO
 WKLD METHOD: CLINITEK 100
                                 WKLD CODE METHOD NAME:
CLINITEK 100
```

WKLD CODE SUFFIX: .4339

#### **Beckman CX Series**

#### Load/Work List:

NAME: CX7M TYPE: SEQUENCE/BATCH FULL TRAY'S ONLY: NO CUPS PER TRAY: 0 VERIFY BY: ACCESSION EXPAND PANELS ON PRINT: NO SUPPRESS SEOUENCE #: YES INCLUDE UNCOLLECTED ACCESSIONS: NO SHORT TEST LIST: YES ACCESSION AREA: CHEMISTRY PROFILE: CX7 TEST: GLUCOSE (PLASMA/SERUM) BUILD NAME ONLY: NO TEST: UREA NITROGEN BUILD NAME ONLY: NO TEST: CREATININE BUILD NAME ONLY: NO TEST: CHEM 7 BUILD NAME ONLY: YES TEST: CHEM 3 BUILD NAME ONLY: YES TEST: ELECTROLYTES BUILD NAME ONLY: YES TEST: CREATININE CLEARANCE BUILD NAME ONLY: YES BUILD NAME ONLY: NO TEST: GLUCOSE, FLUID BUILD NAME ONLY: NO TEST: PROTEIN, TOTAL (FLUID) Specimens to EXCLUDE!: BLOOD PROFILE: HDL ACCESSION AREA: CHEMISTRY TEST: HDL CHOLESTEROL BUILD NAME ONLY: NO TEST: LDL CHOLESTEROL BUILD NAME ONLY: NO TEST: LDL CALCULATED BUILD NAME ONLY: NO PROFILE: DAU ACCESSION AREA: CHEMISTRY TEST: AMPHETAMINES BUILD NAME ONLY: NO BUILD NAME ONLY: NO TEST: BENZODIAZEPINES TEST: ZDRUGS OF ABUSE - URINE SCREEN BUILD NAME ONLY: YES WKLD METHOD: SYNCHRON CX7 WKLD CODE METHOD NAME: SYNCHRON CX7 WKLD CODE SUFFIX: .4009 MAJOR ACCESSION AREA: CHEMISTRY LAB SUBSECTION: SYNCHRON BENCH

#### Auto Instrument Setup:

```
NUMBER: 16
                                      NAME: CX5-IM
  LOAD/WORK LIST: CX7M
 ENTRY for LAGEN ROUTINE: Accession cross-reference
 CROSS LINKED BY: ID
 MESSAGE CONFIGURATION: UNIVERSAL INTERFACE
 METHOD: CX5
 DEFAULT ACCESSION AREA: CHEMISTRY OVERLAY DATA: YES
NUMBER: 1
                                      TEST: UREA NITROGEN
 UI TEST CODE: 05C
 ROUTINE STORAGE: TV(3,1)
                                  NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: YES
NUMBER: 2
                                      TEST: GLUCOSE
 UI TEST CODE: 06C
 ROUTINE STORAGE: TV(608085,1) NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: YES
NUMBER: 3
                                      TEST: CREATININE
 UI TEST CODE: 03C
 ROUTINE STORAGE: TV(4,1) NUMBER OF DECIMAL PLACES: 1
```

DOWNLOAD TO INSTRUMENT: YES

#### Auto Instrument Setup (continued):

```
NUMBER: 37
                                       TEST: HDL CHOLESTEROL
 UI TEST CODE: 83A
 ROUTINE STORAGE: TV(80,1) NUMBER OF DECIMAL PLACES: 0
  DOWNLOAD TO INSTRUMENT: NO
NUMBER: 38
                                       TEST: LDL CHOLESTEROL
 UI TEST CODE: LDL(CALC)
 ROUTINE STORAGE: TV(291,1)
                                   NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: NO
NUMBER: 40
                                       TEST: AMPHETAMINES
 PARAM 1: S LA7VAL=$S(LA7VAL=1:"POS", LA7VAL=0:"NEG", 1:"")
S:LA7VAL="" LA7VAL="
", LA7XFORM(3)=0
                                       UI TEST CODE: 84A
 ROUTINE STORAGE: TV(26,1)
                                       DOWNLOAD TO INSTRUMENT: YES
NUMBER: 41
                                       TEST: BENZODIAZEPINES
 PARAM 1: S LA7VAL=$S(LA7VAL=1:"POS",LA7VAL=0:"NEG",1:"")
S:LA7VAL="" LA7VAL="
", LA7XFORM(3)=0
                                       UI TEST CODE: 86A
 ROUTINE STORAGE: TV(216,1)
                                       DOWNLOAD TO INSTRUMENT: YES
 METH NAME: CX5-IM
 FILE BUILD ENTRY: EN
                                      FILE BUILD ROUTINE: LA7UID
  SEND TRAY/CUP LOCATION: yes
                                     AUTO DOWNLOAD: NO
 WKLD METHOD: SYNCHRON CX5CE
                                       WKLD CODE METHOD NAME:
SYNCHRON CX5CE
 WKLD CODE SUFFIX: .4576
NUMBER: 15
                                       NAME: CX7-IM
 LOAD/WORK LIST: CX7M
 ENTRY for LAGEN ROUTINE: Accession cross-reference
 CROSS LINKED BY: ID
 MESSAGE CONFIGURATION: UNIVERSAL INTERFACE
 METHOD: CX7
 DEFAULT ACCESSION AREA: CHEMISTRY
                                       OVERLAY DATA: YES
NUMBER: 1
                                       TEST: GLUCOSE
 UI TEST CODE: 06C
 ROUTINE STORAGE: TV(608085,1)
                                       NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: YES
NUMBER: 2
                                       TEST: UREA NITROGEN
 UI TEST CODE: 05C
 ROUTINE STORAGE: TV(3,1)
                                   NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: YES
NUMBER: 3
                                       TEST: CREATININE
 UI TEST CODE: 03C
                                      ROUTINE STORAGE: TV(4,1)
 NUMBER OF DECIMAL PLACES: 1
                                      DOWNLOAD TO INSTRUMENT: YES
NUMBER: 25
                                      TEST: HDL CHOLESTEROL
 UI TEST CODE: 83A
  ROUTINE STORAGE: TV(80,1)
                                    NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: NO
NUMBER: 27
                                       TEST: LDL CHOLESTEROL
 UI TEST CODE: LDL(CALC)
  ROUTINE STORAGE: TV(291,1)
                                NUMBER OF DECIMAL PLACES: 0
  DOWNLOAD TO INSTRUMENT: NO
 METH NAME: 195
 FILE BUILD ENTRY: EN
                          FILE BUILD ROUTINE:
LA7UID
  SEND TRAY/CUP LOCATION: yes
                                     AUTO DOWNLOAD: NO
```

#### Data Innovation

WKLD METHOD: SYNCHRON CX7

SYNCHRON CX7

WKLD CODE SUFFIX: .4009

WKLD CODE METHOD NAME:

#### Auto Instrument Setup (continued):

```
NUMBER: 22
                                       NAME: CX-CLUS
  LOAD/WORK LIST: CX7M
 ENTRY for LAGEN ROUTINE: Accession cross-reference
 CROSS LINKED BY: ID
 MESSAGE CONFIGURATION: UNIVERSAL INTERFACE
 METHOD: CX5
 DEFAULT ACCESSION AREA: CHEMISTRY OVERLAY DATA: YES
NUMBER: 1
                                       TEST: UREA NITROGEN
 UI TEST CODE: 05C
 ROUTINE STORAGE: TV(3,1)
                                    NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: YES
NUMBER: 2
                                       TEST: GLUCOSE
 UI TEST CODE: 06C
 ROUTINE STORAGE: TV(608085,1) NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: YES
                                       TEST: CREATININE
NUMBER: 3
 UI TEST CODE: 03C
 ROUTINE STORAGE: TV(4,1) NUMBER OF DECIMAL PLACES: 1
 DOWNLOAD TO INSTRUMENT: YES
NUMBER: 37
                                       TEST: HDL CHOLESTEROL
 UI TEST CODE: 83A
 ROUTINE STORAGE: TV(80,1) NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: NO
NUMBER: 38
                                       TEST: LDL CHOLESTEROL
 UI TEST CODE: LDL(CALC)
 ROUTINE STORAGE: TV(291,1)
                                   NUMBER OF DECIMAL PLACES: 0
 DOWNLOAD TO INSTRUMENT: NO
NUMBER: 40
                                       TEST: AMPHETAMINES
 PARAM 1: S LA7VAL=$S(LA7VAL=1:"POS", LA7VAL=0:"NEG", 1:"")
S:LA7VAL="" LA7VAL="
", LA7XFORM(3) = 0
                                       UI TEST CODE: 84A
 ROUTINE STORAGE: TV(26,1)
                                       DOWNLOAD TO INSTRUMENT:
YES
NUMBER: 41
                                       TEST: BENZODIAZEPINES
 PARAM 1: S LA7VAL=$S(LA7VAL=1:"POS",LA7VAL=0:"NEG",1:"")
S:LA7VAL="" LA7VAL="
", LA7XFORM(3) = 0
                                       UI TEST CODE: 86A
 ROUTINE STORAGE: TV(216,1)
                                       DOWNLOAD TO INSTRUMENT:
 METH NAME: CX5-IM
 FILE BUILD ENTRY: EN
                                       FILE BUILD ROUTINE:
LA7UID
 SEND TRAY/CUP LOCATION: yes
                                      AUTO DOWNLOAD: YES
                                 WKLD CODE METHOD NAME:
 WKLD METHOD: SYNCHRON CX7
SYNCHRON CX7
 WKLD CODE SUFFIX: .4009
```

#### **CX Host Communication Parameters:**

Enable Barcode type that prints on label printer.

**Host Communications:** 

Mode: Bidirectional Baud Rate: 9600 Data Bits: 8

Stop Bits: 1 Parity: None Device ID: 0

Flow Control: XON/XOFF

For Query Mode:

Stream 700 Special Functions /Func 2 Host Set-up = ON

Stream 701 Sample/Cup/Func 6 Host Query= ON

Stream 702 Results/Func 3 Test Results= ON

Stream 703 Instrument Status /Func 2 Bidirectional Start Up = ON.

#### **Modulus Differential Counter**

#### Load/Work List:

NAME: DIFFERENTIAL (BLOOD) LOAD TRANSFORM: UNIVERSAL TYPE: TRAY, CUP CUPS PER TRAY: 30 FULL TRAY'S ONLY: NO EXPAND PANELS ON PRINT: NO VERIFY BY: ACCESSION SUPPRESS SEQUENCE #: NO INCLUDE UNCOLLECTED ACCESSIONS: NO PROFILE: DIFFERENTIAL (BLOOD) ACCESSION AREA: HEMATOLOGY BUILD NAME ONLY: YES TEST: DIFFERENTIAL (BLOOD) TEST: WBC SCAN BUILD NAME ONLY: NO TEST: SEGS BUILD NAME ONLY: NO TEST: BANDS BUILD NAME ONLY: NO TEST: POLYCHROMASIA BUILD NAME ONLY: NO TEST: NUCLEATED RBC/100WBC BUILD NAME ONLY: NO ACCESSION AREA: HEMATOLOGY PROFILE: SCAN COMPLETE TEST: SEGS BUILD NAME ONLY: YES TEST: BANDS BUILD NAME ONLY: YES TEST: PLT (ESTM) BUILD NAME ONLY: YES TEST: POLYCHROMASIA BUILD NAME ONLY: YES BUILD NAME ONLY: YES TEST: HYPOCHROMIA TEST: DIFFERENTIAL (BLOOD) BUILD NAME ONLY: YES TEST: SCAN-COMPLETE BUILD NAME ONLY: NO PROFILE: RBC MORPHOLOGY ACCESSION AREA: HEMATOLOGY TEST: PLT (ESTM) SPECIMEN: BLOOD BUILD NAME ONLY: YES TEST: RBC SCAN SPECIMEN: BLOOD BUILD NAME ONLY: YES WKLD METHOD: MANUAL WKLD CODE METHOD NAME: MANUAL WKLD CODE SUFFIX: .3000 MAJOR ACCESSION AREA: HEMATOLOGY

#### **Auto Instrument Setup:**

```
NUMBER: 13
                                        NAME: DIFF1-IM
 LOAD/WORK LIST: DIFFERENTIAL (BLOOD)
  ENTRY for LAGEN ROUTINE: Accession cross-reference
  CROSS LINKED BY: ID
 MESSAGE CONFIGURATION: UNIVERSAL INTERFACE
 METHOD: MODULUS
 DEFAULT ACCESSION AREA: HEMATOLOGY OVERLAY DATA: YES
                                        TEST: EOSINOPHILS
NUMBER: 1
 PARAM 1: S LA7VAL=+LA7VAL
                                        UI TEST CODE: EOSINOPHILS
 ROUTINE STORAGE: TV(398,1)
NUMBER: 14
                                        TEST: POLYCHROMASIA
 PARAM 1: S LA7VAL=LA7VAL "+"
                                        UI TEST CODE: POLYCHROMASIA
 ROUTINE STORAGE: TV(412,1)
NUMBER: 18
                                        TEST: PLT (ESTM)
  PARAM 1: S LA7VAL=$S(LA7VAL="0":"ADQ", LA7VAL="1":"DEC",
LA7VAL="2":"INC",1:LA7VAL)
UI TEST CODE: PLT (ESTM)
  ROUTINE STORAGE: TV(405,1)
NUMBER: 30
                                        TEST: WBC SCAN
```

#### Data Innovation

PARAM 1: S LA7VAL=\$S(LA7VAL="1":"OK",1:LA7VAL)

UI TEST CODE: WBC SCAN ROUTINE STORAGE:TV(608029,1)

# Auto Instrument Setup (continued):

NUMBER: 33 TEST: LARGE PLATELETS
PARAM 1: S
LA7VAL=\$S(LA7VAL="1":"OCC",LA7VAL="2":"MODERATE",LA7VAL="3":"MANY",1:LA7VAL)
UI TEST CODE: LARGE PLATELETS
ROUTINE STORAGE: TV(608050,1)
INTERFACE NOTES: PIN CONFIGURATION: 3(GREEN)...7(RED)...ONLY.

#### **Coulter STKS**

#### Load/Work List:

NAME: COULTER STKS LOAD TRANSFORM: UNIVERSAL CUPS PER TRAY: 200 TYPE: SEQUENCE/BATCH FULL TRAY'S ONLY: NO EXPAND PANELS ON PRINT: NO VERIFY BY: ACCESSION SUPPRESS SEQUENCE #: NO INCLUDE UNCOLLECTED ACCESSIONS: NO SHORT TEST LIST: YES ADDITIONAL LAB TESTS: Instrument Set Up - Hematology PROFILE: COULTER CBC ACCESSION AREA: HEMATOLOGY TEST: WBC SPECIMEN: BLOOD BUILD NAME ONLY: NO TEST: RBC SPECIMEN: BLOOD BUILD NAME ONLY: NO TEST: CBC SPECIMEN: BLOOD BUILD NAME ONLY: YES Specimens to EXCLUDE!: PERITONEAL FLUID WKLD METHOD: STKS WKLD CODE METHOD NAME: STKS WKLD METHOD: STKS
WKLD CODE SUFFIX: .4191 MAJOR ACCESSION AREA: HEMATOLOGY

#### Auto Instrument Setup:

NUMBER: 11 NAME: STKS-IM LOAD/WORK LIST: COULTER STKS ENTRY for LAGEN ROUTINE: Accession cross-reference CROSS LINKED BY: IDE MESSAGE CONFIGURATION: UNIVERSAL INTERFACE METHOD: STKS DEFAULT ACCESSION AREA: HEMATOLOGY OVERLAY DATA: YES TEST: WBC NUMBER: 1 UI TEST CODE: WBC ROUTINE STORAGE: TV(384,1) NUMBER OF DECIMAL PLACES: 1 NUMBER: 2 TEST: RBC METH NAME: STKS-IM INTERFACE NOTES: Timeout (secs) 9 Baud rate 9600 Parity none Stop Bits 1 Handshake Yes Block size 256 Enable Spooler Yes Replace NULL by SP Yes AUTO DOWNLOAD: NO

# **Uro-Comp for Clinitek 200**

#### Load/Work List:

NAME: CLINITEK-200 LOAD TRANSFORM: UNIVERSAL TYPE: TRAY, CUP CUPS PER TRAY: 10 FULL TRAY'S ONLY: NO EXPAND PANELS ON PRINT: NO VERIFY BY: ACCESSION SUPPRESS SEOUENCE #: NO INCLUDE UNCOLLECTED ACCESSIONS: NO PROFILE: URINALYSIS ACCESSION AREA: URINALYSIS BUILD NAME ONLY: NO TEST: URINALYSIS TEST: T.REACTION, URINE BUILD NAME ONLY: NO TEST: URINE MICROSCOPIC BUILD NAME ONLY: NO TEST: URINE COLOR BUILD NAME ONLY: YES TEST: URINE CLARITY BUILD NAME ONLY: YES TEST: URINE GLUCOSE BUILD NAME ONLY: YES TEST: URINE WBC/HPF BUILD NAME ONLY: YES BUILD NAME ONLY: YES
BUILD NAME ONLY: YES TEST: URINE RBC/HPF TEST: URINE KBC/nrr
TEST: SQUAMOUS EPITHELIAL BUILD NAME ONLY: YES BUILD NAME ONLY: YES EST: AMORPHOUS CRYSTALS TRAY #: 1 CUP or SEQUENCE #: 1 CONTROL: CLINITEK OC LEVEL 1 CUP or SEQUENCE #: 2 CONTROL: CLINITEK QC LEVEL 2 WKLD METHOD: CLINITEK 200 WKLD CODE METHOD NAME: CLINITEK 200 MAJOR ACCESSION AREA: URINALYSIS WKLD CODE SUFFIX: .3100

#### **Auto Instrument Setup:**

```
NUMBER: 12
                                        NAME: URO-IM
 LOAD/WORK LIST: CLINITEK-200
  ENTRY for LAGEN ROUTINE: Accession cross-reference
  CROSS LINKED BY: ID
 MESSAGE CONFIGURATION: UNIVERSAL INTERFACE
 METHOD: UROC/CLINT
  DEFAULT ACCESSION AREA: URINALYSIS
                                       OVERLAY DATA: YES
NUMBER: 1
                                        TEST: URINE COLOR
 PARAM 1: S LA7VAL=$P("YELLOW; PALE
YEL; STRAW; AMBER; DK. AMBER; ORANGE; RED; BROWN; BLUE; GREEN", "; ", LA7VAL+1)
UI TEST CODE: URINE COLOR
 ROUTINE STORAGE: TV(683,1)
                                        TEST: URINE CLARITY
NUMBER: 2
 PARAM 1: S
LA7VAL=$P("CLEAR; HAZY; CLOUDY; TURBID; FLOC; SMOKEY; MUCOID", "; ", LA7VAL+1)
UI TEST CODE: URINE CLARITY
 ROUTINE STORAGE: TV(162,1)
                                        TEST: SPECIFIC GRAVITY (URINES)
 UI TEST CODE: SPECIFIC GRAVITY (URINES)
 ROUTINE STORAGE: TV(685,1)
                                    NUMBER OF DECIMAL PLACES: 3
                                        TEST: URINE PROTEIN
NUMBER: 5
 PARAM 1: S LA7VAL=$S(LA7VAL=0:"NEG",LA7VAL=1:"TRACE",1:LA7VAL)
  UI TEST CODE: URINE PROTEIN
                                      ROUTINE STORAGE: TV(691,1)
```

NUMBER OF DECIMAL PLACES: 0

#### Auto Instrument Setup (continued):

```
NUMBER: 6
                                        TEST: URINE GLUCOSE
  PARAM 1: S LA7VAL=$S(LA7VAL=0:"NEG",1:LA7VAL)
 UI TEST CODE: URINE GLUCOSE
                                        ROUTINE STORAGE:
TV(690,1)
 NUMBER OF DECIMAL PLACES: 0
NUMBER: 7
                                        TEST: URINE KETONES
  PARAM 1: S
LA7VAL=$$(LA7VAL=">80":"LARGE",1:$P("NEG;TRACE;SMALL;MOD",";",LA7VAL+1))
UI TEST CODE: URINE KETONES
  ROUTINE STORAGE: TV (689,1)
                                        TEST: URINE BILIRUBIN
NUMBER: 8
  PARAM 1: S LA7VAL=$P("NEG;;SMALL;MOD;LARGE",";",LA7VAL+1)
  UI TEST CODE: URINE BILIRUBIN
                                        ROUTINE STORAGE: TV (688, 1)
NUMBER: 10
                                        TEST: NITRITE, URINE
  PARAM 1: S LA7VAL=$S(LA7VAL=0:"NEG", LA7VAL=6:"POS", 1:LA7VAL)
  UI TEST CODE: NITRITE, URINE
                                        ROUTINE STORAGE: TV (795,1)
NUMBER: 13
                                        TEST: URINE WBC/HPF
  PARAM 1: S LA7VAL=$P("NONE;0-4;5-10;10-20;20-30;30-50;50-
100;100+;TNTC",";",LA7VAL+1)
                                        UI TEST CODE: URINE WBC/HPF
  ROUTINE STORAGE: TV(693,1)
NUMBER: 15
                                        TEST: SOUAMOUS EPITHELIAL
  PARAM 1: S LA7VAL=$P("NONE;OCC;FEW;MOD;MANY",";",LA7VAL+1)
  UI TEST CODE: SQUAMOUS EPITHELIAL ROUTINE STORAGE: TV(777,1)
 INTERFACE NOTES:
                    Clinitek 200 interfaced through a URO-Comp PIN
CONFIGURATION: 3 (GREEN) ... 7 (RED)
```

## Axsym

#### Load/Work List:

NAME: AXSYM

CUPS PER TRAY: 0

VERIFY BY: ACCESSION

TYPE: SEQUENCE/BATCH

FULL TRAY'S ONLY: NO

INCLUDE UNCOLLECTED

ACCESSIONS: NO
PROFILE: TDM ACCESSION AREA: SPECIAL CHEMISTRY

TEST: DIGOXIN BUILD NAME ONLY: NO

PROFILE: PSA ACCESSION AREA: SPECIAL CHEMISTRY

TEST: PROSTATE SPECIFIC ANTIGEN BUILD NAME ONLY: NO

WKLD METHOD: ABBOTT AXSYM WKLD CODE METHOD NAME: ABBOTT AXSYM WKLD CODE SUFFIX: .4455 MAJOR ACCESSION AREA: CHEMISTRY

LAB SUBSECTION: SPECIAL CHEMISTRY

#### **Auto Instrument Setup:**

NUMBER: 20 NAME: AXSYM

LOAD/WORK LIST: AXSYM

ENTRY for LAGEN ROUTINE: Accession cross-reference

CROSS LINKED BY: ID

MESSAGE CONFIGURATION: UNIVERSAL INTERFACE

METHOD: AXSYM

DEFAULT ACCESSION AREA: SPECIAL CHEMISTRY

OVERLAY DATA: YES

NUMBER: 1 TEST: PROSTATE SPECIFIC ANTIGEN
UI TEST CODE: 441 ROUTINE STORAGE: TV(608312,1)
NUMBER OF DECIMAL PLACES: 1 DOWNLOAD TO INSTRUMENT: NO

NUMBER: 2 TEST: DIGOXIN UI TEST CODE: 601

ROUTINE STORAGE: TV(608060,1)

NUMBER OF DECIMAL PLACES: 1 DOWNLOAD TO INSTRUMENT: YES

METH NAME: AXSYM

FILE BUILD ENTRY: EN FILE BUILD ROUTINE: LA7UID

SEND TRAY/CUP LOCATION: yes AUTO DOWNLOAD: YES

WKLD METHOD: ABBOTT AXSYM WKLD CODE METHOD NAME: ABBOTT AXSYM

WKLD CODE SUFFIX: .4455

**Note** UI test codes are the assay numbers for each test. Test codes may be found using the axsym instrument terminal, configuration option, or assay parameters.

At this time, the Digoxins are set to run Host/Query. The PSAs are only run once a week and are set up to run Unidirectional and options for Host Query and Auto-ID are turned off. Only Transmit to Host is left on.

On the instrument:

Main Menu:

Configuration:

General:

6, 26, 28, and 29 set to on.

Sample Bar Code: (We use the LRLABEL routine for Intermec 4100 10 part label)

Code 39

Enable Symbology: YES
Use Checksum: NO

Ports:

Host Port: Parity- NONE Baud Rate- 9600

Data Bits- 8
Stop Bits- 1

Pin Configuration:

STD RS232:

AXSYM VISTA

Pin 1------ 1 | |

Pin 2----- Output---- /--->> 2

Pin 7------ 7

Pins 2 and 3 are "crossed" in this twisted pair diagram.

Further documentation may be found in patch LR\*5.2\*11 SEQ 6.

The Data Innovations Instrument Manager will automatically default the LRDFN as the patient ID. You must go into Configuration Edit on the Instrument Manager and change the PID to SSN.